

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P233285

Luminaire Tested: **4VRVT3-LD5-4-G-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VRVT3-LD5-4-G-UNV-L850-CD1-U
Description: 4FT VRVT3 GENERAL APPLICATION, 4000LM
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4428.0 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

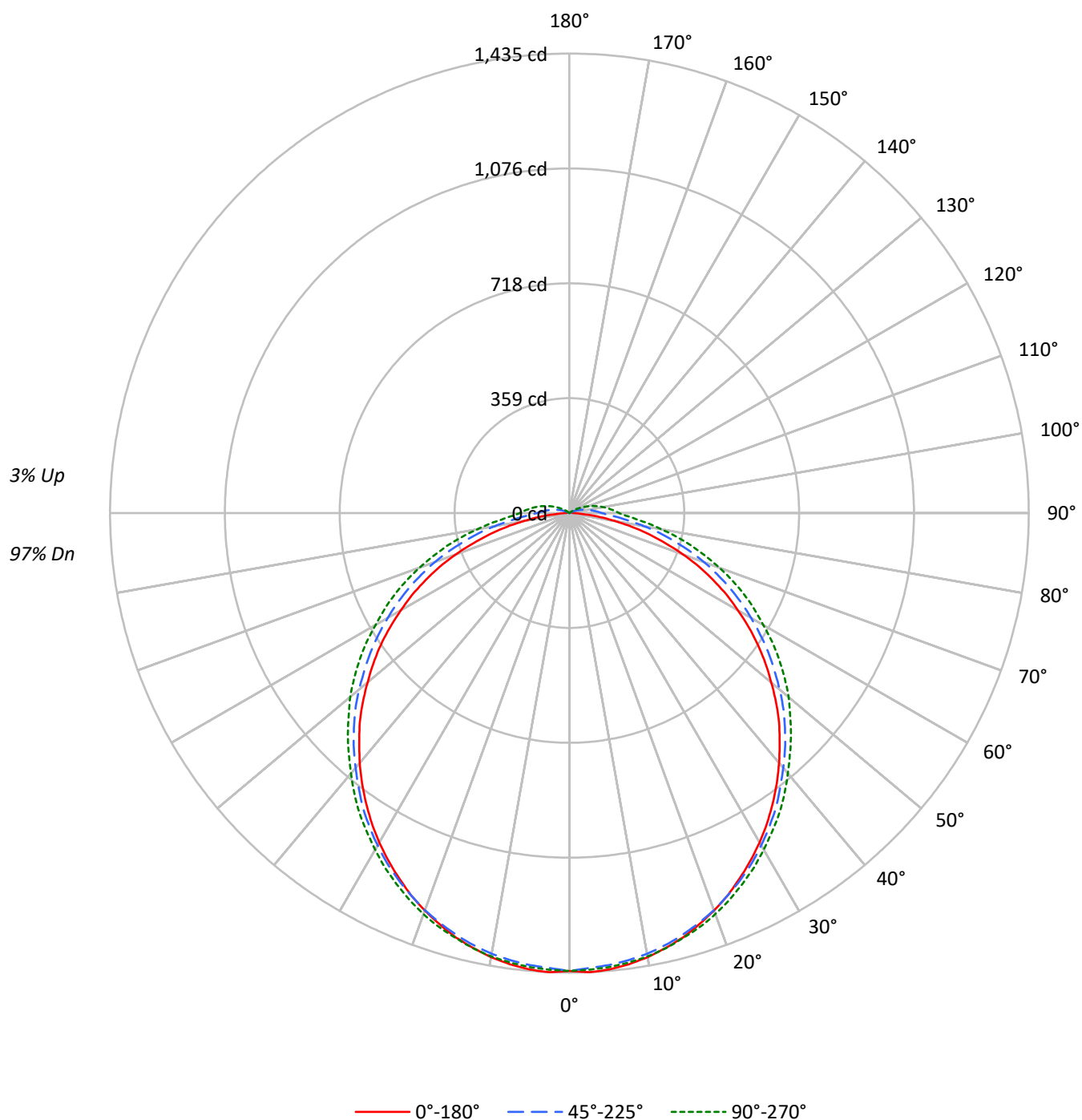
Input Watts (W): 32.24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	81	81	79
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67	67	67	65
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57	57	57	54
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48	48	48	46
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42	42	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37	37	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	33	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29	29	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	26	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9234	9234	9234
5°	9070	7846	7571
10°	8830	6818	6400
15°	8573	5989	5501
20°	8294	5304	4797
25°	7998	4716	4205
30°	7700	4202	3704
35°	7382	3745	3278
40°	7049	3321	2890
45°	6712	2946	2555
50°	6311	2590	2257
55°	5907	2255	1972
60°	5410	1932	1695
65°	4864	1626	1447
70°	4156	1328	1195
75°	3267	1017	954
80°	2180	733	714
85°	982	482	515



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.1
10°-20°	386.7	8.7
20°-30°	584.2	13.2
30°-40°	703.8	15.9
40°-50°	735.3	16.6
50°-60°	679.3	15.3
60°-70°	544.6	12.3
70°-80°	352.8	8.0
80°-90°	163.0	3.7
90°-100°	80.4	1.8
100°-110°	42.9	1.0
110°-120°	16.7	0.4
120°-130°	3.1	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1106.2	25.0
0°-40°	1810.0	40.9
0°-60°	3224.5	72.8
0°-90°	4284.9	96.8
90°-120°	140.0	3.2
90°-150°	143.1	3.2
90°-180°	143.0	3.2
0°-180°	4428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1430	1430	1430	1430	1430	
5°	1431	1426	1417	1426	1423	136
15°	1372	1371	1364	1375	1374	387
25°	1259	1262	1264	1276	1278	580
35°	1107	1115	1124	1137	1144	693
45°	926	937	952	970	979	713
55°	720	736	758	786	800	642
65°	496	511	552	587	602	490
75°	258	290	338	379	395	274
85°	53	97	152	192	206	64
90°	12	48	101	141	155	8
95°	8	30	78	116	130	6
105°	3	6	39	71	84	4
115°	1	1	11	31	41	2
125°	1	0	0	5	10	1
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.8	1429.8	1429.8	1429.8	1429.8
2.5°	1435.2	1430.9	1422.2	1429.8	1427.6
5°	1430.9	1426.5	1416.9	1425.5	1423.3
7.5°	1421.2	1416.9	1408.3	1417.9	1415.8
10°	1408.3	1405.0	1397.5	1406.1	1406.1
12.5°	1391.0	1390.0	1382.4	1392.1	1392.1
15°	1371.7	1370.6	1364.1	1374.9	1373.8
17.5°	1346.9	1348.0	1342.6	1353.4	1355.5
20°	1321.1	1321.1	1320.0	1330.8	1333.0
22.5°	1292.1	1293.1	1292.1	1305.0	1307.1
25°	1258.7	1261.9	1264.1	1275.9	1278.1
27.5°	1224.3	1228.6	1232.9	1244.7	1248.0
30°	1187.7	1190.9	1198.5	1211.4	1213.5
32.5°	1149.0	1155.4	1161.9	1174.8	1179.1
35°	1107.0	1114.6	1124.2	1137.1	1143.6
37.5°	1064.0	1072.6	1081.2	1098.4	1103.8
40°	1018.8	1028.5	1039.2	1055.4	1061.8
42.5°	971.5	984.4	997.3	1014.5	1019.9
45°	926.3	937.0	952.1	970.4	979.0
47.5°	875.7	889.7	906.9	926.3	934.9
50°	823.0	838.1	857.4	880.0	894.0
52.5°	772.4	787.5	806.9	834.8	847.8
55°	719.7	735.9	758.5	786.4	800.4
57.5°	664.9	682.1	706.8	738.0	752.0
60°	607.8	626.1	655.2	689.6	699.3
62.5°	554.1	571.3	604.6	638.0	652.0
65°	496.0	511.0	551.9	587.4	602.5
67.5°	438.9	456.2	499.2	537.9	550.8
70°	377.6	399.1	447.5	483.0	498.1
72.5°	316.3	342.1	392.7	431.4	445.4
75°	258.2	290.5	337.8	378.7	394.8
77.5°	202.3	235.6	289.4	327.1	343.2
80°	145.2	185.0	237.8	276.5	291.5
82.5°	96.8	137.7	190.4	231.3	247.4
85°	52.7	96.8	151.7	191.5	205.5
87.5°	24.7	67.8	119.4	159.2	175.4
90°	11.8	48.4	101.1	140.9	154.9
92.5°	9.7	37.7	89.3	128.0	143.1
95°	7.5	30.1	77.5	116.2	130.2
97.5°	6.5	21.5	67.8	104.4	119.4
100°	5.4	15.1	57.0	93.6	106.5
102.5°	4.3	9.7	47.3	82.8	95.7
105°	3.2	6.5	38.7	71.0	83.9
107.5°	3.2	3.2	31.2	60.2	73.2
110°	2.2	2.2	22.6	50.6	61.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	16.1	40.9	50.6
115°	1.1	1.1	10.8	31.2	40.9
117.5°	1.1	1.1	6.5	23.7	31.2
120°	1.1	1.1	3.2	16.1	23.7
122.5°	1.1	1.1	1.1	10.8	16.1
125°	1.1	0.0	0.0	5.4	9.7
127.5°	0.0	0.0	0.0	2.2	5.4
130°	0.0	0.0	0.0	0.0	1.1
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)